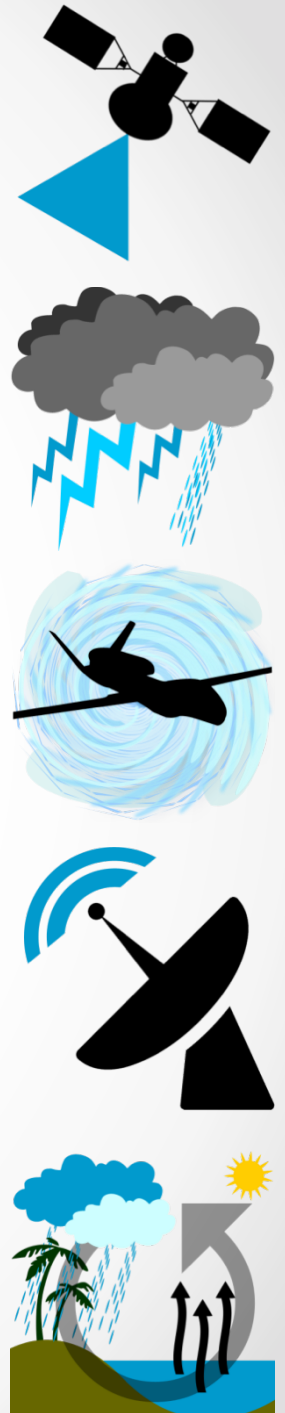


GHRC Website

Shannon Flynn
Ajinkya Kulkarni

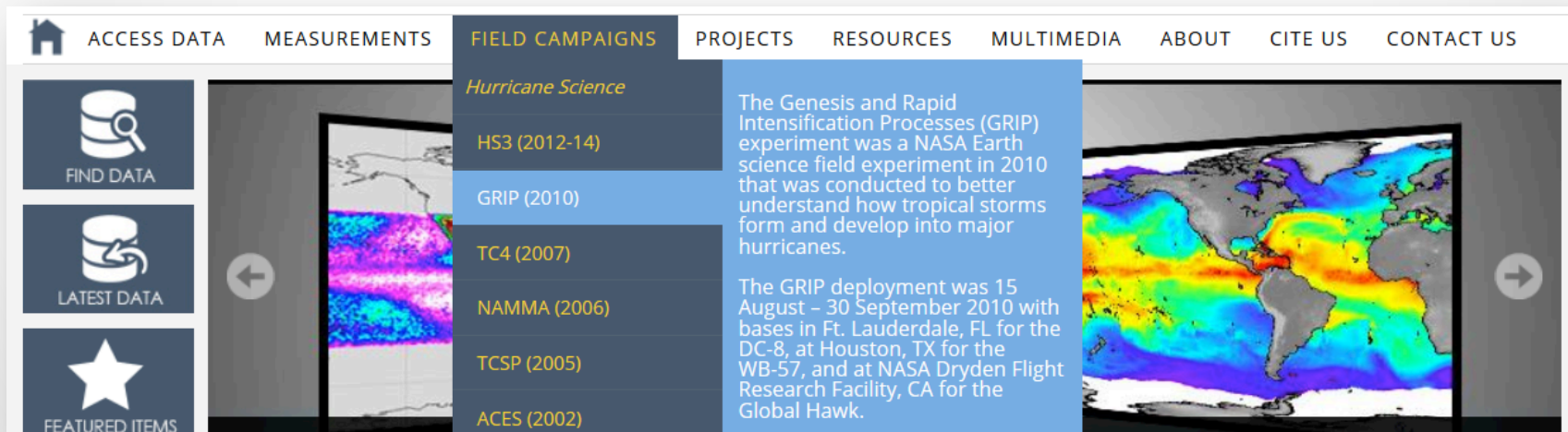
sflynn@itsc.uah.edu

Presented at the GHRC User Working Group Meeting
October 7, 2015



Website upgrades post-telecon

- Menu simplified/consolidated
 - Multiple “data” categories collapsed into one
 - Field campaigns clarified with respect to chronology and category
 - Additional information added to de-obfuscate multiple acronyms and give overview of items
- Look-and-feel more consistent across multiple sites (SCS, HyDRO, lightning, etc)



Clarification

CORE MEASUREMENTS, RELATED MISSIONS AND INSTRUMENTS



Atmospheric Electricity

The study of electrical processes within the atmosphere. Encompasses electrical phenomena, regarded collectively, which occur in the Earth's atmosphere, including cloud to ground and intracloud lightning, electric field measurements.

[GHRC Atmospheric Electricity Holdings](#)



Precipitation

All liquid or solid phase aqueous particles that originate in the atmosphere and fall to the earth's surface. It is also the amount, usually expressed in millimeters or inches of liquid water depth, of the water substance that has fallen at a given point over a specified period of time. The GHRC archive includes both satellite and field campaign measurements of precipitation rate, amount, and droplet size.

[GHRC Precipitation Holdings](#)



Atmospheric Winds

Air in motion relative to the surface of the Earth. GHRC holdings include measurements of ocean surface wind speed and direction from satellite microwave radiometers, and vertical wind profiles from airborne instruments and dropsondes.

[GHRC Atmospheric Winds Holdings](#)



Atmospheric Water Vapor

Water present in the atmosphere in gaseous form; one of the most important of all constituents of the atmosphere. Its amount varies widely in space and time due to the great variety of both "sources" of evaporation and "sinks" of condensation that provide active motivation to the hydrologic cycle. Water vapor is important not only as the raw material for cloud and rain and snow, but also as a vehicle for the transport of energy (latent heat) and as a regulator of planetary temperatures through absorption and emission of radiation, most significantly in the thermal infrared (the greenhouse effect). GHRC archive holds measurements for water vapor, humidity and precipitable water.

[GHRC Atmospheric Water Vapor Holdings](#)



Atmospheric Temperature

Measure of temperature at different levels of the Earth's atmosphere. It is governed by many factors, including incoming solar radiation, humidity and altitude. Measurements of temperature at different levels of the Earth's atmosphere. GHRC holds satellite-derived temperature data from the sea surface level to -41km or 2.5mb.

[GHRC Atmospheric Temperature Holdings](#)



Cloud Hydrometeors

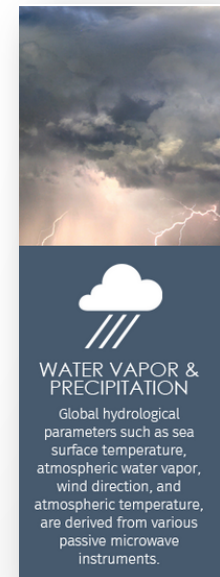
Clouds consist of microscopic droplets of liquid water (warm clouds), tiny crystals of ice (cold clouds), or both (mixed phase clouds). Cloud droplets initially form by the condensation of water vapor onto condensation nuclei when the supersaturation of air exceeds a critical value. GHRC has satellite-derived measurements of cloud liquid water and cloud top heights, as well as airborne observations of cloud hydrometeors.

[GHRC Cloud Hydrometeors Holdings](#)

"Measurements" category split into additional pages to add clarity

Each area summarized with direct link to applicable data holdings

"Atmosphere/Precipitation" category renamed to make focus clearer and extend hydrology theme



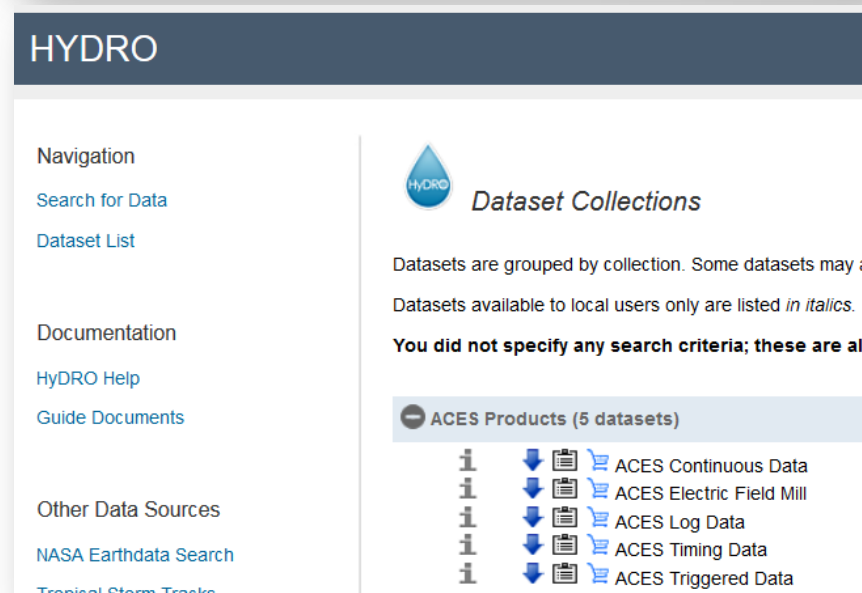
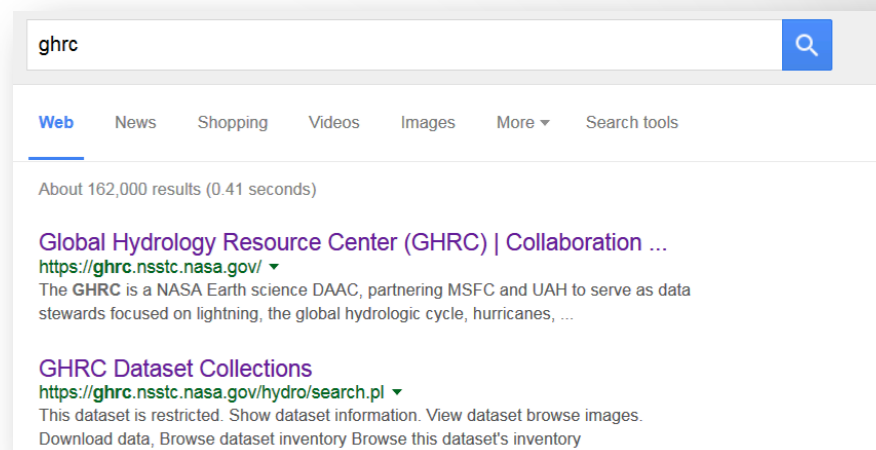
Website

Search ranking improved through ongoing SEO efforts

Feedback handling improved with Kayako user support tool

HyDRO updates

- Consistent visual theme
- Earthdata login enabled for shopping cart orders and data downloads with all "HTTPS" access URLs
- Order workflow updated



In progress

Documents

- Using Drupal creation workflow module to manage Guide Documents in conjunction with GHRC Data Management Group
 - Provides in-Drupal version control and eliminates manual file editing
- Auto-generated PDF versions for archive/download

Improving SEO

- Gathering aggregate user traffic habits and patterns
- Implementing schema.org
- Making URLs more search-engine/machine friendly

Static page migration

- Import old field campaign sites into new Drupal site

Demo

<https://ghrc.nsstc.nasa.gov/home/>

<https://ghrc.nsstc.nasa.gov/hydro/>

Questions

1. Are you finding what you need on the new GHRC DAAC Web site?
 - a. are there concerns about ease of navigation?
 - b. What other information do you want to see (e.g., data set recommendations, latest publications, etc.)?
2. Do there need to be more/specialized options to reach data?
 - a. How useful would you find a data search capability based on weather events or other geophysical phenomena?
 - b. Which events or phenomena are most important to you?
3. Do you have any lessons learned or insight to offer from maintaining/creating your own DAAC websites?
4. What else do you want to see on or from the site? What is the site lacking?
5. Other comments/questions/concerns?